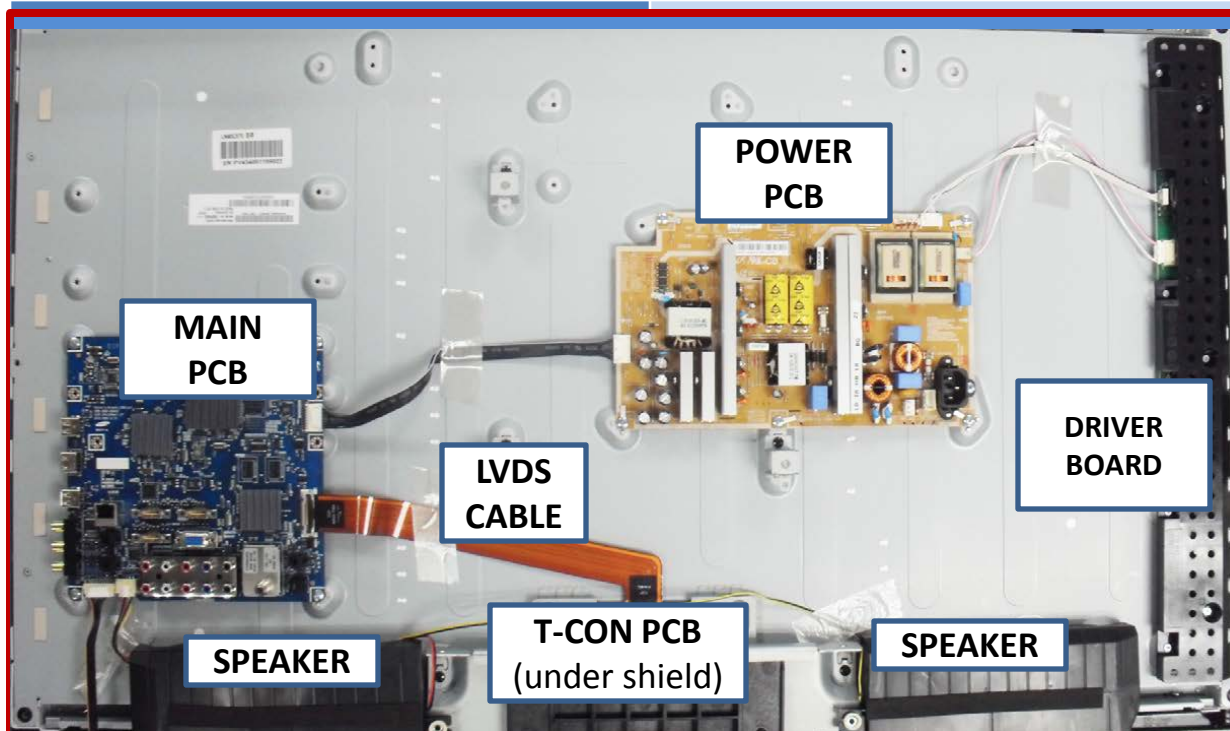




HELP : 1-888-751-4086; 1-866-894-0637 (FE)

<http://gspn3.samsungcsportal.com>

PLUS ONE

<http://my.plus1solutions.net/clientPortals/samsung>

HOT TIPS

Power On Problems: (see **page 2**)

Video Problems: (see **pages 3,4**)

TIP If the unit has a vertical yellow colored line that is one pixel wide in the video, verify that it also affects the OSD. If so, replace the panel. If it does not affect the OSD and is in multiple sources, replace the main board.

SERVICE BULLETINS

2 011 LCD Option Byte Table
ASC20110624001.pdf

FIRMWARE

Version: 1002.2

To fix USB Power Overload error message issue.

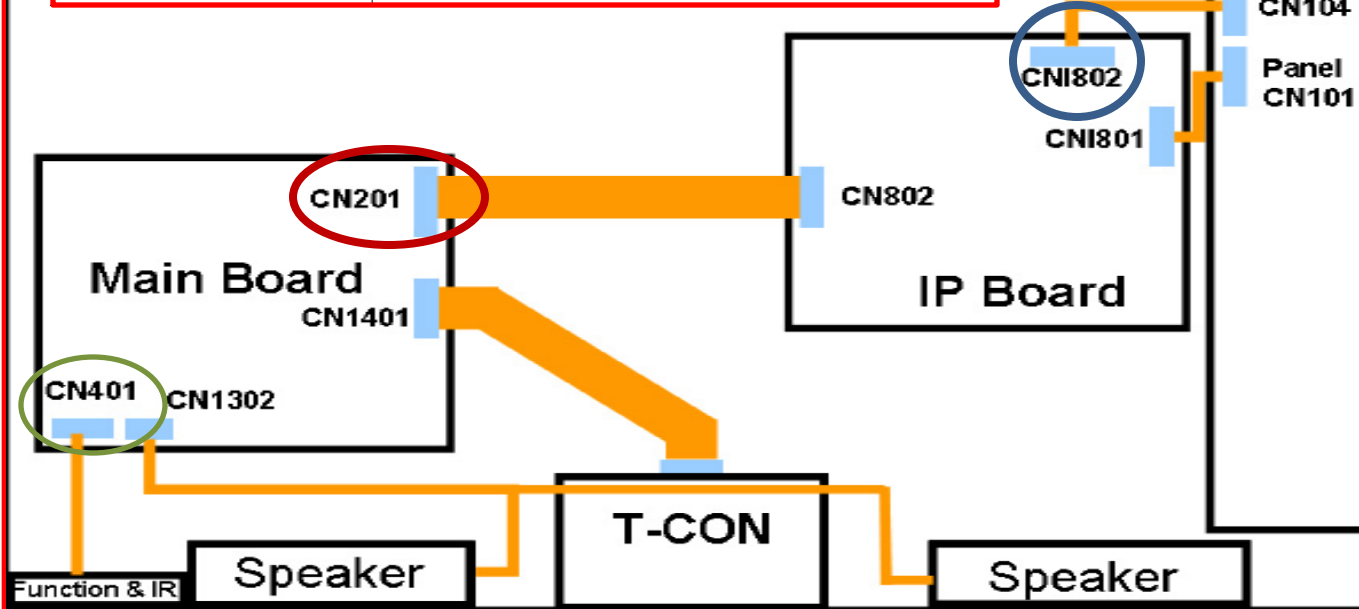
Be sure to check for latest SW updates.

PARTS (Board Assemblies)

Be sure to check for latest parts updates.

Model Code	Side Label	Part No.				
		Panel Module	Inverter	T-Con	Main B'd	Power
LN40D610M4FXZA	SQ01	BN07-01032A	BN81-06514A	BN81-06512A	BN96-19437A	BN44-00464A
	SN02	BN07-01037A	BN81-06720A	BN81-06719A	BN96-19773A	BN44-00464A

Connector	Function
CN201 → CN802	Supply main power and dimming signal from IP board to Main Board.
CN1401 → CN505	The LVDS signal transferred from Main Board to Panel .
CNI802 → Panel CN104	Feedback signal from driver.
CNI801 → Panel CN101	Supply power from IP board to Driver Board.



CN201 (To Power board)			
1	B12 V_PW	10	GND
2	SW_P	11	GND
3	B12 V_PW	12	H_OUT
4	A5 V_PW	13	B13 V_PW
5	B5 V_PW	14	PWM_DIMMING_OUT
6	B5 V_PW	15	B13 V_PW
7	B5 V_PW	16	B5 V_PW
8	GND	17	B13 V_PW
9	GND	18	IP_DET

CNI 802			
1	E-PWM	8	GND
2	N.C	9	GND
3	BLU_ON	10	B24 V
4	INV_Err	11	B24 V
5	GND	12	B24 V
6	GND	13	B24 V
7	GND	14	B24 V

CN401 (To Function / IR)			
1	IR	6	KEY_INPUT1
2	GND	7	KEY_INPUT2
3	A3.3 V_PW	8	LED_STB
4	MSCL_A5 V	9	LED_CNTR
5	MSDA_A5 V	10	A3.3 V_PW

Power On Sequence (approximate Voltages)

1. **Standby Voltages:** CN201-4 (5V)
2. **Power On** CN201- 2(0 – 3.5V)
3. **Low Voltage Supplies On** CN201-1, 3 -7, 13, 15, 16, 17 (Volts Listed on CN201)
4. **Back Light On** CN201- (0-5V delayed)
5. **Back Light Confirm** CNI802
6. **Dimming Signal** CN201-14

To Force Backlight On without Main Board :

1. Remove Power Cord
2. Remove **CN 802**
3. Plug Power Cord In.
4. Backlight should be on immediately.

TROUBLESHOOTING VIDEO PROBLEMS

1. Verify Video Operation

- Boot Logo with power on
- Customer Picture Test** in user menu
- "Display"** (If display and Boot Logo & Customer Picture Test is OK the source or cables are first suspected. Then check for a defective input on the Main Board.)
- Substitute with known good Source
(**external DVD or Signal Generator** to check inputs on Main Board)

2. Using Test Patterns in Service Mode

- **ENTER SERVICE MODE** -

- Select an active source signal since Test Pattern may rely on signal source to appear or select TV Source mode.

Customer Remote

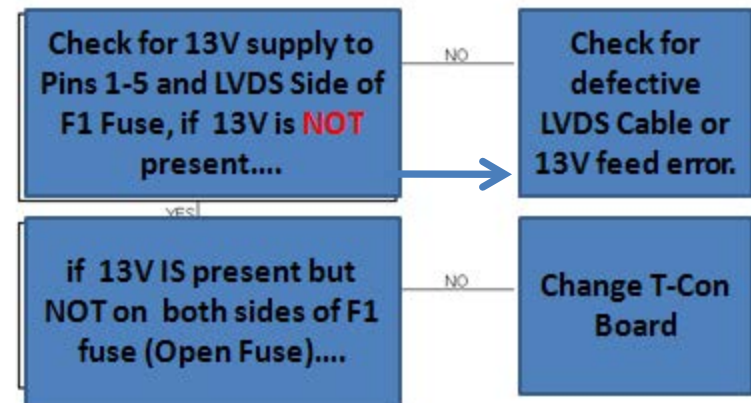
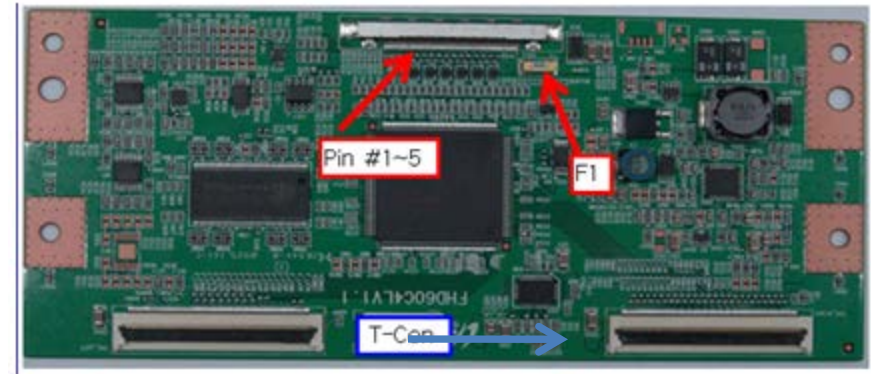
- Power Standby
- Mute, 182, Power On

Service Remote

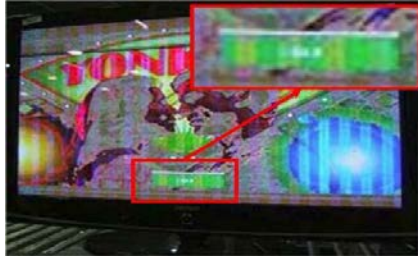
- Power On
- Info, Factory

- Select SVC
- Select Test Patterns

T-Con Troubleshooting



ON SCREEN FAILURE EXAMPLES:



If Picture & Display errors
Defective Main Board, LVDS,
or T-CON



Green lines or a green screen
defective main board , LVDS , or
T-CON.

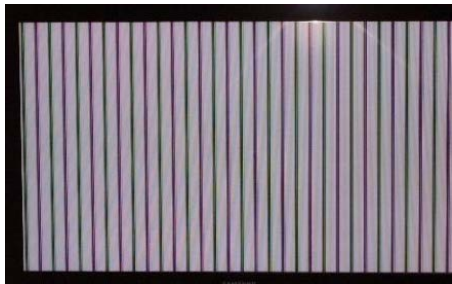


Original Image



Image on Screen

Pixelization can be caused by the main board
but is more commonly a source error



Vertical or Horizontal Lines :Defective
Panel likely but also T-CON, LVDS, or Main
Board. Use Test Patterns in Factory Service
Mode to determine error)

ALIGNMENTS:

1. Check/Set Option Bytes: in Service Mode

Option	
Control	T - MIST4AUSC - XXX
SVC	T - MIST4AUSC - XXX
Expert	E - Manual: UX5ATSCA-XXXX
ADC / WB	EDID SUCCESS HDCP: SUCCESS CALIB: AV / COM / PC / HDMI / Option: XXXX XXXX XXXX X
	SDAL - XXX RFS: P0154 T - TDTSAKSR KERNEL MODULE VERSION: "XXXXX_XX" 20XX - XX - XX TYPE: XXXXXX MAC Not Available FACTORY DATA VER: XXX EERC VERSION: XXX DTP - AP - COMP - 310 - 01 DTP - HWG - 0304 DTP - BP - 0314 DATE OF PURCHASE: XX / XX / XX

Factory Reset	
Type	50HSHB4
Model	P8550
TUNER	ALPS
Region	US
DDR	SAMSUNG
Light Effect	Off
Inch	50"
Exhibition Mode	Off

Model Code	Front Color					
		Type	Model	Tuner	Region	
LN40D610M 4FXZA	T-C- BLK	40A1AFOC for SQ01 40D1AFOC for SN02	LD610	SEMCO	USA	

2. Check/Perform latest Firmware
Upgrade for all repairs.

3. Perform reset in Service Mode &
Plug and Play if Main board is replaced.

SPECIAL NOTES:

Inform customer of reset of all
Settings if Main Board or Panel is replaced.